CDISC Roadmap Focus on Realizing the Long-Term Vision

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Agenda

- The Strategic Goal
- CDISC Roadmap



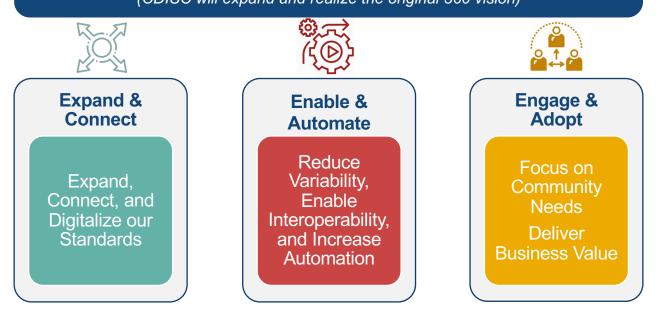
The Strategic Goal

Realizing the CDISC Mission

colisc 360

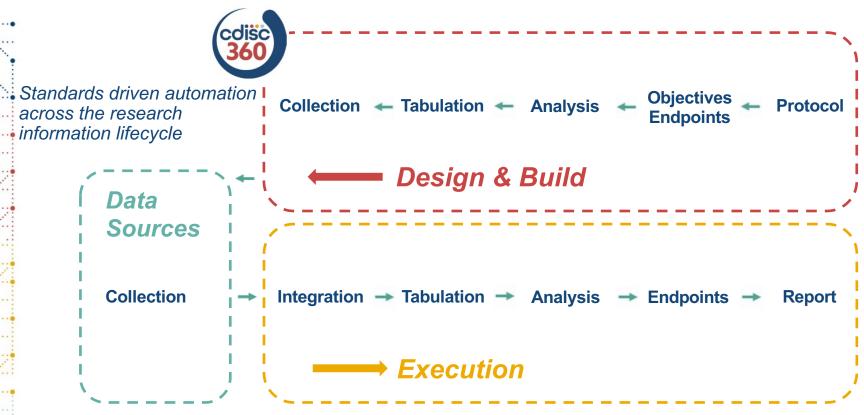
STRATEGIC GOAL

Expand and enable standards driven automation across the end-toend study information lifecycle from study design through results (CDISC will expand and realize the original 360 vision)

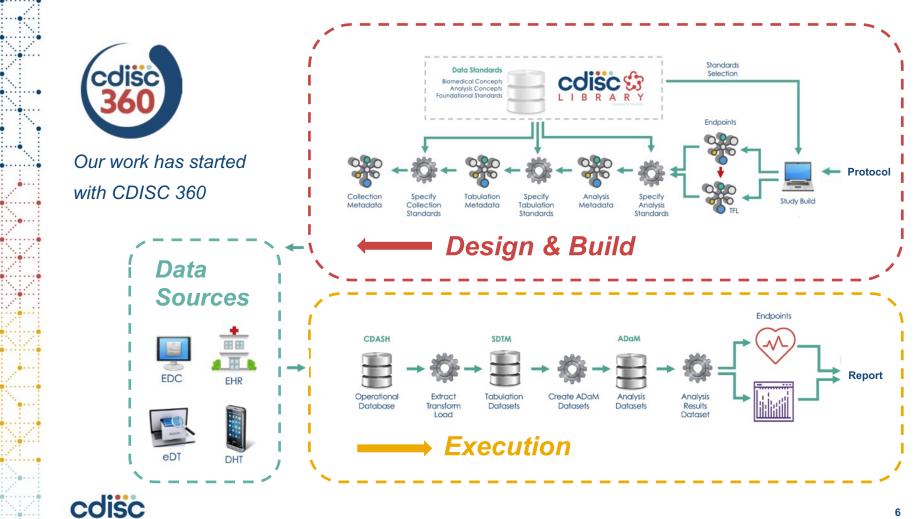




End to End Study Information Lifecycle







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CDISC Roadmap

Roadmap Pillars and Objectives



Expand & Connect

- Embrace and adopt digital study design
- Expand and connect standards across the clinical research information lifecycle
- Define clear pipeline for integration of new data sources



Enable & Automate

- Develop ready to use implementation standards
- Create open-source technology enabled standards
- Establish and manage a conformance framework



Engage & Adopt

- Establish a continuous feedback loop across the CDISC community
- Shift focus to producers/consumers needs and lower the barrier to use
- · Prioritize communication to enable our stakeholders

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Expand & Connect: Digital Study Design

- Unified Study Definitions Model (USDM)
 - · Holds many aspects of the study design
 - Facilitates interoperability between systems
 - Schedule of Activities = digital backbone of the protocol
 - Link Schedule of Activities to standard Concepts
 - Support study design activities



• ICH M11

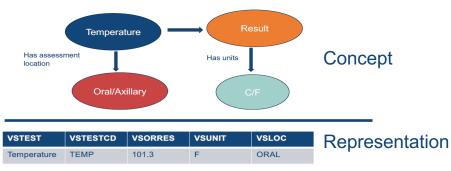
- Provide controlled terminology, aligned with USDM
- Collaborate with ICH and Vulcan to create exchange mechanism
 - Utilizing Digital Protocol (UDP)
- Support use cases and pilots (e.g. FDA PRISM)





Connect Design to Results

- Mapping data from various formats often breaks down
 - The meaning and terminology do not match (e.g. eHR to SDTM)
 - Mapping between common data models is only a part of the solution
- We need well defined Concepts
 - Standardize the meaning and semantics of data
 - Regardless of data representation
- Concepts will
 - Link to the Schedule of Activities
 - Provide consistent implementation
 - Facilitate automation
 - Prevent AI from hallucinating





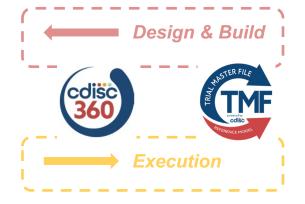




Close the gaps & Expand the standards

- Ensure standards can represent all data
 - Analysis Results Standards (launched March 2024)
 - Common electronic data transfers (to start)
 - Explore structures to represent objectives & endpoints (to start)
- TMF is now integrated with CDISC
 - Roll out form TMF standards development process
 - TMF Controlled Terminology (in progress)
- Digitalize Trial Master File
 - TMF Art of the Possible to TMF Roadmap
 - TMF systems will integrate digital protocol information
 - Enrich TMF with metadata to support automation







Expand & Connect: Integrate Sources

- Study data is originating from many sources
 - Electronic Data Capture systems and eCRFs
 - Various Data Transfers such as eCOAs, ePROs, eHRs
 - Digital Health technologies
- Provide more standards to ingest data
- Digital Health Technologies initiative
 - Partnership with DiME Library of digital endpoints
 - · Link resources to concepts, device attributes, domains
 - Standardize analysis of DHTs where applicable









Expand & Connect: Integrate Sources

- Real-world data provides valuable insights but...
- Concerns about
 - Data quality
 - Data integration issues (fidelity)
 - Traceability
- RWD Lineage
 - Exchange mechanism to represent lineage, traceability and quality
 - Together with the data
- Continue partnering with NIH, IMI and other SDOs
 - Define core data elements





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- Create open-source technology enabled standards
- Establish and manage a **conformance** framework



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Enable & Automate: Ready to Use Standards

- Provide rich resources and examples
 - · normative standards with informative content
 - 'easy' to implement and understand
- eCRF portal
 - https://www.cdisc.org/kb
 - 70 eCRF resources and growing
 - Ready to download and use in eDC systems

• eTLF portal

- Based on the Analysis Results Standard
- Analysis concept + ADaM metadata + ARS metadata + TFL example
- Ready to download and implement







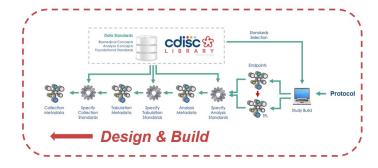
Enable & Automate: Preconfigured example study

- Complete preconfigured example study
 - Include all components from design to submission
 - Understand the normative gaps between standards

- Demonstrate and test the example study
 - Set-up Connectathon events with technology providers

- Collaborate with Regulatory to define use cases
 - Enabling better use of standards for review







Enable & Automate: Open-Source

- Consider technology and automation upfront
- CDISC Open Source Alliance
 - Support and promote development of open-source software
 - Drive innovation
- Examples
 - Oak Initiative: automate SDTM generation
 - Open Study Builder
 - CDISC Open Rules Engine
 - CDISC Rule Editor





Enable & Automate: Technology enables Automation

- Modernize data transport: Dataset JSON
 - Technology friendly, future proof
- Standards with logical models
 - Both USDM and ARS are published with logical models
 - Enables technical implementation, demonstrate use cases
 - Includes API specifications

CDISC Library

- Relevant standards are digitally available via APIs
- Source for tools and automation









Enable & Automate: Conformance Rules



- Complete conformance rules for all relevant foundational standards
 - SDTM, ADaM, SEND, ARS, ...
- Expand to regulatory business rules
 - Current collaboration with FDA, other agencies to follow

• Expand to industry quality rules

- Quality rules beyond standard conformance
- Creating conformance rules for USDM to ensure compliance with USDM framework
 - This will enable checking conformance with M11 transport standard

• Going forward

• Establish rules for all CDISC standards



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Engage & Adopt: Feedback

- Ensure we are solving the right problems
 - Understand the needs of end-users
- Establish a transparent feedback framework
- Reform the CDISC Advisory Council
 - Member input



Continuous Feedback

Define and manage community feedback loop to ensure understanding of needs



Engage & Adopt: User Focus

- Focus to enhance and accelerate standards adoption
 - · A standard is only successful when used
- Include impact assessment to significant standard changes
 - Provide a rationale and value for the change
 - Provide implementation considerations where possible

CDISC education

- Shift from theory to hands-on experience trainings
- I do, we do, you do



User Focus

Shift from development to user needs to enhance and accelerate standards adoption



Engage & Adopt: Communication

- Evaluate on how we make content and information available
 - Website, Social Media, Github, CDISC Library

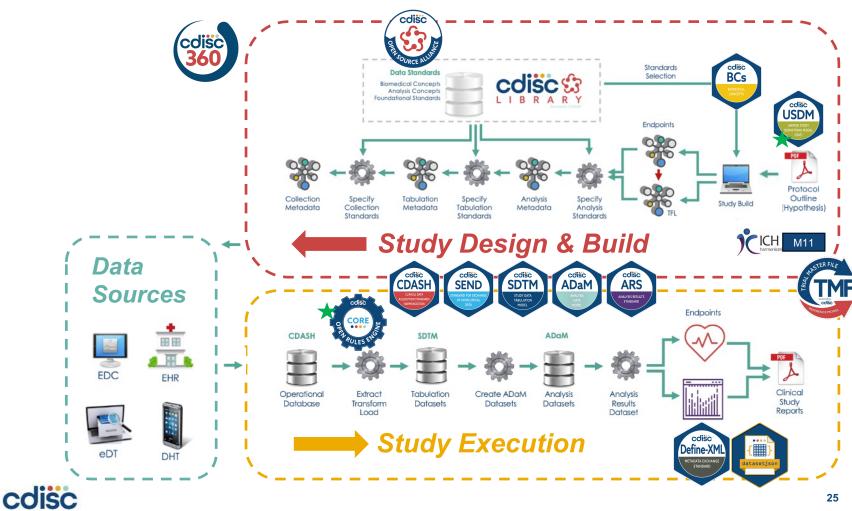
- Publish and maintain a dashboard with current CDISC activities and progress
- Publish the Annual Report
 - Summarize progress on strategic objectives
 - How is CDISC using membership fees to create value



Prioritize Communication

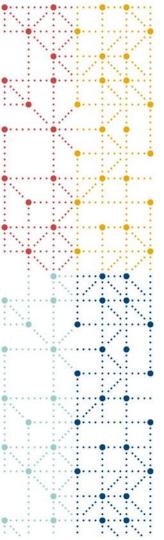
Create frequent and accessible information for CDISC and community alignment





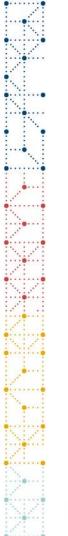
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Thank You!





We Want Your Feedback!

Opportunities:

- Contact CDISC leadership team
- Survey with QR Code
- Social post to share message with broader CDISC community
- Listening Groups



